

LITHIUM SECONDARY BATTERY AND METHOD OF MANUFACTURING THE SAME**Publication number:** JP2002373707 (A)**Publication date:** 2002-12-26**Inventor(s):** MORI MITSUHIRO; UTSUKI KOJI; YAMAMOTO HIROCHIKA;
IRIYAMA JIRO; MIURA TAMAKI**Applicant(s):** NIPPON ELECTRIC CO**Classification:****- international:** H01M10/40; H01M4/02; H01M4/04; H01M4/38; H01M4/40;
H01M4/58; H01M4/62; H01M10/36; H01M10/38; H01M10/36;
H01M4/02; H01M4/04; H01M4/38; H01M4/40; H01M4/58;
H01M4/62; (IPC1-7): H01M10/40; H01M4/02; H01M4/40;
H01M4/62**- European:** H01M10/0565; H01M4/02B; H01M4/04C4; H01M4/38;
H01M4/40; H01M10/052; H01M10/0562; H01M10/0585**Application number:** JP20010180710 20010614**Priority number(s):** JP20010180710 20010614**Also published as:**

US2003003364 (A1)

KR20020095448 (A)

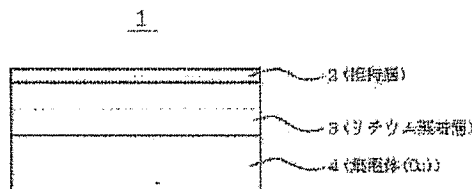
CN1392624 (A)

CN1199309 (C)

B

Abstract of JP 2002373707 (A)

PROBLEM TO BE SOLVED: To provide a lithium secondary battery using lithium metal as negative electrode active material, hard to generate dendrites, and excellent in cycle life and security. **SOLUTION:** The negative electrode of the lithium secondary battery is an electrode obtained by forming a film of an amorphous lithium metal or amorphous lithium alloy on at least one kind of lithium ion support layer formed in the shape of a sheet. For the lithium ion support layer, a thin film of a vitreous solid electrolyte, a polymer solid electrolyte, a carbon material, or a lithium halogen compound, or a polyolefinic porous membrane, is used.



Data supplied from the esp@cenet database — Worldwide